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Notice of Allowability	Application No.	Applicant(s)	
	09/315,810	CHOU ET AL.	
	Examiner	Art Unit	
	Anh-Vu H. Ly	2667	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. ☒ This communication is responsive to amendment filed March 09, 2005.
 - 2. ☒ The allowed claim(s) is/are 5,6,9,10,15,16,19,20,25,26,29 and 30 renumbered as 1-12.
 - 3. ☒ The drawings filed on 26 May 2000 are accepted by the Examiner.
 - 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 - 1. ☐ Certified copies of the priority documents have been received.
 - 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 - 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
- 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)	
1. <input type="checkbox"/> Notice of References Cited (PTO-892)	5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____
3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____	7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment
4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
	9. <input type="checkbox"/> Other _____

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard T. Lyon on April 29, 2005.

The application has been amended as follows:

In The Claims

Claim 5, in line 20, replace "with a one of" with - -with one of- -.

Claim 6, in line 2, replace "broadcast" with - -multicast- -.

Claim 9, in line 11, replace "the source layer" with - -the source stream- -; in line 26, replace "each source layer" with - -each source stream- -; in line 27, replace "layer" with - -stream- -; and in line 29, replace "error correction layer" with - -error correction stream- -.

Claim 15, in line 23, replace "with a one of" with - -with one of- -.

Claim 16, in line 2, replace "broadcast" with - -multicast- -.

Claim 19, in line 15, replace "the source layer" with - -the source stream- -; in line 31, replace "each source layer" with - -each source stream- -; in line 32, replace "layer" with - -stream- -; and in line 34, replace "error correction layer" with - -error correction stream- -.

Claim 20, in lines 1-2, replace "sub-module" with - -program module- -.

Claim 25, in line 23, replace "with a one of" with - -with one of- -.

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Claim 26, in line 3, replace “broadcast” with - -multicast- -.

Claim 29, in line 15, replace “the source layer” with - -the source stream- -; in line 31, replace “each source layer” with - -each source stream- -; in line 32, replace “layer” with - -stream- -; and in line 34, replace “error correction layer” with - -error correction stream- -.

Claim 30, in line 2, replace “subscribing sub-module” with - -subscribing program module- -.

Allowable Subject Matter

2. Claims 5-6, 9-10, 15-16, 19-20, 25-26, and 29-30 are allowed.

The following is an examiner’s statement of reasons for allowance:

The prior art does not teach or fairly suggest incorporating an identifier into each packet in each of the streams of packetized error correction information wherein a different identifier is employed for each of the error correction information streams, thereby, allowing each receiver to select the number of error correction information streams to be received by specifying that only packets having particular identifiers be routed over the network to the receiver, as specified in independent claims 5, 15, and 25.

The prior art does not teach or fairly suggest subscribing over the network to at least one source data stream and at least one error correction information stream, and for each subscribed to source data stream,

(i) receiving source data stream packets comprising a next incoming source data block of the subscribed to the source data stream,

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(ii) receiving parity packets associated with the incoming source data block in the subscribed to error correction information stream or streams,

(iii) determining whether the total number of source data stream packets and parity packets received for the incoming source data block is at least equal the number of source data stream packets multicast for the block,

(iv) whenever the total number of source data stream packets and parity packets received for the incoming source data block equals or exceeds the number of source data stream packets multicast for the block, recovering all the source data stream packets missing in the incoming source data block using the received parity packets,

(v) replacing said missing source data stream packets using the recovered packets, and

(vi) repeating steps (i) through (v) for each successive incoming source data block, as specified in independent claims 9, 19, and 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion


3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

avl


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SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 2667 5/1/05